THE BRAIN: OUR SENSE OF SELF						
Ohio Academic Standards for Science – Grades 6 & 7						
Lesson	Standard	Description				
3	1	Explain that many of the basic functions of organisms are carried out by or within cells and are similar in all organisms. $(6^{th})$				
3, 4	Explain that multicellular organisms have a variety of specialized cells, tissues, organs and organ syst perform specialized functions. (6 <sup>th</sup> )					
3, 4	1	Investigate the great variety of body plans and internal structures found in multicellular organisms. (7 <sup>th</sup> )				
3	3	Identify different forms of energy (e.g., electrical, mechanical, chemical, thermal, nuclear, radiant and acoustic). (7 <sup>th</sup> )				
Ohio Academic Standards for Science and Technology – Grade 7						
Lesson	Standard	Description				
2, 4	3	Recognize that science can only answer some questions and technology can only solve some human problems.				
Ohio Academic Standards for Scientific Inquiry – Grade 7						
Lesson	Standard	Description				
4	1	Explain that variables and controls can affect the results of an investigation and that ideally one variable should be tested at a time; however it is not always possible to control all variables.				
4	2	Identify simple independent and dependent variables.				
4	3	Formulate and identify questions to guide scientific investigations that connect to science concepts and can be answered through scientific investigations.				
4	4	Choose the appropriate tools and instruments and use relevant safety procedures to complete scientific investigations.				
2, 4	5	Analyze alternative scientific explanations and predictions and recognize that there may be more than one good way to interpret a given set of data.				
4	6	Identify faulty reasoning and statements that go beyond the evidence or misinterpret the evidence.				
4	7	Use graphs, tables and charts to study physical phenomena and infer mathematical relationships between variables (e.g., speed and density).				

Ohio Academic Standards for Scientific Ways of Knowing – Grade 7								
Lesson	Standard	Description						
4	1	Show that the reproducibility of results is essential to reduce bias in scientific investigations.						
4	2	Describe how repetition of an experiment may reduce bias.						
4	3	Describe how the work of science requires a variety of human abilities and qualities that are helpful in daily life (e. reasoning, creativity, skepticism and openness).						
Ohio Academic Standards for English Language Arts – Grade 7								
Lesson	Standard		Description					
2, 3, 4, 5	Vocabulary 1		Define the meaning of unknown words through context clues and the author's use of comparison, contrast, definition, restatement and example.					
2, 3, 4, 5	Reading Process 4		Summarize the information in texts, using key ideas, supporting details and referencing gaps or contradictions.					
1, 2, 3, 4	Reading Applications 5		Analyze information found in maps, charts, tables, graphs, diagrams, cutaways and overlays.					
2, 4, 5	Writing Process 6		Organize writing with an effective and engaging introduction, body and a conclusion that summarizes, extends or elaborates on points or ideas in the writing.					
2, 4, 5	Writing Process 8		Group related ideas into paragraphs, including topic sentences following paragraph form, and maintain a consistent focus across paragraphs.					
2, 4, 5	Writing Process 12		Add and delete information and details to better elaborate on a stated central idea and to more effectively accomplish purpose					
2, 4	Writing Applications 4		Write informational essays or reports, including research, that present a literal understanding of the topic, include specific facts, details and examples from multiple sources, and create an organizing structure appropriate to the purpose, audience and context.					
5	Writing Applications 5		Write persuasive essays that establish a clear position and include relevant information to support ideas.					
4, 5	Research 1		Generate a topic, assigned or personal interest, and open-ended questions for research and develop a plan for gathering information.					
4, 5	Research 5		Analyze and organize important information, and select appropriate sources to support central ideas, concepts and themes.					

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2, 4, 5	Research 8	Use a variety of communication techniques, including oral, visual, written or multimedia reports, to present information that supports a clear position with organized and relevant evidence about the topic or esearch question.					
Ohio Academic Standards for Mathematics – Grade 7							
Lesson	Standard	Description					
4	Number, Number Sense, and Operations 7	Solve problems using the appropriate form of a rational number (fraction, decimal or percent).					
4	Measurement 5	Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.					
4	Patterns, Functions and Algebra 1	Represent and analyze patterns, rules and functions with words, tables, graphs and simple variable expressions.					
4	Patterns, Functions and Algebra 5	Represent linear equations by plotting points in the coordinate plane.					
4	Patterns, Functions and Algebra 8	Use formulas in problem-solving situations.					
4	Patterns, Functions and Algebra 10	Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.					
4	Data Analysis and Probability 8	Make predictions based on theoretical probabilities, design and conduct an experiment to test the predictions, compare actual results to predicted results, and explain differences.					